



## SEQUENCE LISTING

<110> Gaiger, Alexander  
Cheever, Martin A.

<120> COMPOSITIONS AND METHODS FOR WT1  
SPECIFIC IMMUNOTHERAPY

<130> 210121.465C3

<140> US 09/685,830

<141> 2000-10-09

<150> US 09/684,361

<151> 2000-10-06

<150> US 09/276,484

<151> 1999-03-25

<150> US 09/164,223

<151> 1998-09-30

<160> 326

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 17

<212> PRT

<213> Homo sapien

<400> 1

Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro Ser Leu Gly Gly Gly  
1 5 10 15  
Gly

<210> 2

<211> 23

<212> PRT

<213> Homo sapien

<400> 2

Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro  
1 5 10 15  
Tyr Leu Pro Ser Cys Leu Glu  
20

<210> 3

<211> 23

<212> PRT

<213> Mus musculus

<400> 3  
 Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro  
 1 5 10 15  
 Tyr Leu Pro Ser Cys Leu Glu  
 20

<210> 4  
 <211> 19  
 <212> PRT  
 <213> Homo sapien

<400> 4  
 Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser Ser Val Lys  
 1 5 10 15  
 Trp Thr Glu

<210> 5  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for use in amplifying human WT1

<400> 5  
 gagagtcaga cttgaaagca gt 22

<210> 6  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for use in amplifying human WT1

<400> 6  
 ctgagcctca gcaaattgggc 20

<210> 7  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for use in amplifying human WT1

<400> 7  
 gagcatgcat gggctccgac gtgcggg 27

<210> 8  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for use in amplifying human WT1  
  
 <400> 8  
 ggggtaccca ctgaacggtc cccga 25  
  
 <210> 9  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for use in amplifying mouse WT1  
  
 <400> 9  
 tccgagccgc acctcatg 18  
  
 <210> 10  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for use in amplifying mouse WT1  
  
 <400> 10  
 gcctgggatg ctggactg 18  
  
 <210> 11  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for use in amplifying mouse WT1  
  
 <400> 11  
 gagcatgcga tgggttccga cgtgcgg 27  
  
 <210> 12  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer for use in amplifying mouse WT1  
  
 <400> 12  
 ggggtacctc aaagcgccac gtggagttt 29  
  
 <210> 13  
 <211> 17  
 <212> PRT

<213> Mus musculus

<400> 13

Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Ser Ser Leu Gly Gly Gly  
 1 5 10 15  
 Gly

<210> 14

<211> 19

<212> PRT

<213> Mus musculus

<400> 14

Gly Ala Thr Leu Lys Gly Met Ala Ala Gly Ser Ser Ser Ser Val Lys  
 1 5 10 15  
 Trp Thr Glu

<210> 15

<211> 15

<212> PRT

<213> Homo sapien

<400> 15

Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg  
 1 5 10 15

<210> 16

<211> 15

<212> PRT

<213> Mus musculus

<400> 16

Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg  
 1 5 10 15

<210> 17

<211> 14

<212> PRT

<213> Mus musculus

<400> 17

Val Arg Arg Val Ser Gly Val Ala Pro Thr Leu Val Arg Ser  
 1 5 10

<210> 18

<211> 14

<212> PRT

<213> Homo sapien

<400> 18

Val Arg Arg Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser  
 1 5 10

<210> 19  
 <211> 15  
 <212> PRT  
 <213> Homo sapien

<400> 19  
 Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His  
 1 5 10 15

<210> 20  
 <211> 15  
 <212> PRT  
 <213> Mus musculus

<400> 20  
 Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His  
 1 5 10 15

<210> 21  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for amplification of WT1 in mouse cell lines

<400> 21  
 cccaggctgc aataagagat a 21

<210> 22  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for amplification of WT1 in mouse cell lines

<400> 22  
 atgttgtgat ggcggaccaa t 21

<210> 23  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Beta Actin primer used in the control reactions

<400> 23  
 gtggggcgcc ccaggcacca 20

<210> 24  
 <211> 24

<212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Beta Actin primer used in the control reactions

<400> 24  
 gtccttaatg ctacgcacga tttc 24

<210> 25  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for use in amplifying human WT1

<400> 25  
 ggcatctgag accagtgaga a 21

<210> 26  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for use in amplifying human WT1

<400> 26  
 gctgtccac ttacagatgc a 21

<210> 27  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer for use in amplifying human WT1

<400> 27  
 tcaaagcgcc agctggagtt t 21

<210> 28  
 <211> 9  
 <212> PRT  
 <213> Homo sapien

<400> 28  
 Ala Ala Gly Ser Ser Ser Ser Val Lys  
 1 5

<210> 29  
 <211> 9  
 <212> PRT

<213> Homo sapien

<400> 29

Ala Ala Gln Phe Pro Asn His Ser Phe  
1 5

<210> 30

<211> 9

<212> PRT

<213> Homo sapien

<400> 30

Ala Glu Pro His Glu Glu Gln Cys Leu  
1 5

<210> 31

<211> 9

<212> PRT

<213> Homo sapien

<400> 31

Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
1 5

<210> 32

<211> 9

<212> PRT

<213> Homo sapien

<400> 32

Ala Gly Ser Ser Ser Ser Val Lys Trp  
1 5

<210> 33

<211> 9

<212> PRT

<213> Homo sapien

<400> 33

Ala Ile Arg Asn Gln Gly Tyr Ser Thr  
1 5

<210> 34

<211> 9

<212> PRT

<213> Homo sapien

<400> 34

Ala Leu Leu Pro Ala Val Pro Ser Leu  
1 5

<210> 35

<211> 9

<212> PRT

<213> Homo sapien

<400> 35

Ala Leu Leu Pro Ala Val Ser Ser Leu  
1 5

<210> 36

<211> 9

<212> PRT

<213> Homo sapien

<400> 36

Ala Gln Phe Pro Asn His Ser Phe Lys  
1 5

<210> 37

<211> 9

<212> PRT

<213> Homo sapien

<400> 37

Ala Gln Trp Ala Pro Val Leu Asp Phe  
1 5

<210> 38

<211> 9

<212> PRT

<213> Homo sapien

<400> 38

Ala Arg Met Phe Pro Asn Ala Pro Tyr  
1 5

<210> 39

<211> 9

<212> PRT

<213> Homo sapien

<400> 39

Ala Arg Ser Asp Glu Leu Val Arg His  
1 5

<210> 40

<211> 9

<212> PRT

<213> Homo sapien

<400> 40

Ala Ser Ser Gly Gln Ala Arg Met Phe  
1 5

<210> 41

<211> 9

<212> PRT



<213> Homo sapien

<400> 41

Ala Tyr Gly Ser Leu Gly Gly Pro Ala  
1 5

<210> 42

<211> 9

<212> PRT

<213> Homo sapien

<400> 42

Ala Tyr Pro Gly Cys Asn Lys Arg Tyr  
1 5

<210> 43

<211> 9

<212> PRT

<213> Homo sapien

<400> 43

Cys Ala Leu Pro Val Ser Gly Ala Ala  
1 5

<210> 44

<211> 9

<212> PRT

<213> Homo sapien

<400> 44

Cys Ala Tyr Pro Gly Cys Asn Lys Arg  
1 5

<210> 45

<211> 9

<212> PRT

<213> Homo sapien

<400> 45

Cys His Thr Pro Thr Asp Ser Cys Thr  
1 5

<210> 46

<211> 9

<212> PRT

<213> Homo sapien

<400> 46

Cys Lys Thr Cys Gln Arg Lys Phe Ser  
1 5

<210> 47

<211> 9

<212> PRT

<213> Homo sapien

<400> 47

Cys Leu Glu Ser Gln Pro Ala Ile Arg  
1 5

<210> 48

<211> 9

<212> PRT

<213> Homo sapien

<400> 48

Cys Leu Ser Ala Phe Thr Val His Phe  
1 5

<210> 49

<211> 9

<212> PRT

<213> Homo sapien

<400> 49

Cys Met Thr Trp Asn Gln Met Asn Leu  
1 5

<210> 50

<211> 9

<212> PRT

<213> Homo sapien

<400> 50

Cys Arg Trp Pro Ser Cys Gln Lys Lys  
1 5

<210> 51

<211> 9

<212> PRT

<213> Homo sapien

<400> 51

Cys Arg Tyr Gly Pro Phe Gly Pro Pro  
1 5

<210> 52

<211> 9

<212> PRT

<213> Homo sapien

<400> 52

Cys Thr Gly Ser Gln Ala Leu Leu Leu  
1 5

<210> 53

<211> 9

<212> PRT

<213> Homo sapien

<400> 53

Asp Glu Leu Val Arg His His Asn Met  
1 5

<210> 54

<211> 9

<212> PRT

<213> Homo sapien

<400> 54

Asp Phe Ala Pro Pro Gly Ala Ser Ala  
1 5

<210> 55

<211> 9

<212> PRT

<213> Homo sapien

<400> 55

Asp Phe Lys Asp Cys Glu Arg Arg Phe  
1 5

<210> 56

<211> 9

<212> PRT

<213> Homo sapien

<400> 56

Asp Gly Thr Pro Ser Tyr Gly His Thr  
1 5

<210> 57

<211> 9

<212> PRT

<213> Homo sapien

<400> 57

Asp His Leu Lys Thr His Thr Arg Thr  
1 5

<210> 58

<211> 9

<212> PRT

<213> Homo sapien

<400> 58

Asp Leu Asn Ala Leu Leu Pro Ala Val  
1 5

<210> 59

<211> 9

<212> PRT

<213> Homo sapien

<400> 59

Asp Pro Met Gly Gln Gln Gly Ser Leu  
1 5

<210> 60

<211> 9

<212> PRT

<213> Homo sapien

<400> 60

Asp Gln Leu Lys Arg His Gln Arg Arg  
1 5

<210> 61

<211> 9

<212> PRT

<213> Homo sapien

<400> 61

Asp Ser Cys Thr Gly Ser Gln Ala Leu  
1 5

<210> 62

<211> 9

<212> PRT

<213> Homo sapien

<400> 62

Asp Val Arg Asp Leu Asn Ala Leu Leu  
1 5

<210> 63

<211> 9

<212> PRT

<213> Homo sapien

<400> 63

Asp Val Arg Arg Val Pro Gly Val Ala  
1 5

<210> 64

<211> 9

<212> PRT

<213> Homo sapien

<400> 64

Glu Asp Pro Met Gly Gln Gln Gly Ser  
1 5

<210> 65

<211> 9

<212> PRT

<213> Homo sapien

<400> 65

Glu Glu Gln Cys Leu Ser Ala Phe Thr  
1 5

<210> 66

<211> 9

<212> PRT

<213> Homo sapien

<400> 66

Glu Lys Pro Tyr Gln Cys Asp Phe Lys  
1 5

<210> 67

<211> 9

<212> PRT

<213> Homo sapien

<400> 67

Glu Lys Arg Pro Phe Met Cys Ala Tyr  
1 5

<210> 68

<211> 9

<212> PRT

<213> Homo sapien

<400> 68

Glu Pro His Glu Glu Gln Cys Leu Ser  
1 5

<210> 69

<211> 9

<212> PRT

<213> Homo sapien

<400> 69

Glu Gln Cys Leu Ser Ala Phe Thr Val  
1 5

<210> 70

<211> 9

<212> PRT

<213> Homo sapien

<400> 70

Glu Ser Asp Asn His Thr Ala Pro Ile  
1 5

<210> 71

<211> 9

<212> PRT

<213> Homo sapien

<400> 71

Glu Ser Asp Asn His Thr Thr Pro Ile  
1 5

<210> 72

<211> 9

<212> PRT

<213> Homo sapien

<400> 72

Glu Ser Gln Pro Ala Ile Arg Asn Gln  
1 5

<210> 73

<211> 9

<212> PRT

<213> Homo sapien

<400> 73

Glu Thr Ser Glu Lys Arg Pro Phe Met  
1 5

<210> 74

<211> 9

<212> PRT

<213> Homo sapien

<400> 74

Phe Ala Pro Pro Gly Ala Ser Ala Tyr  
1 5

<210> 75

<211> 9

<212> PRT

<213> Homo sapien

<400> 75

Phe Ala Arg Ser Asp Glu Leu Val Arg  
1 5

<210> 76

<211> 9

<212> PRT

<213> Homo sapien

<400> 76

Phe Gly Pro Pro Pro Pro Ser Gln Ala  
1 5

<210> 77

<211> 9

<212> PRT

<213> Homo sapien

<400> 77

Phe Lys Asp Cys Glu Arg Arg Phe Ser  
1 5

<210> 78

<211> 9

<212> PRT

<213> Homo sapien

<400> 78

Phe Lys Leu Ser His Leu Gln Met His  
1 5

<210> 79

<211> 9

<212> PRT

<213> Homo sapien

<400> 79

Phe Pro Asn Ala Pro Tyr Leu Pro Ser  
1 5

<210> 80

<211> 9

<212> PRT

<213> Homo sapien

<400> 80

Phe Gln Cys Lys Thr Cys Gln Arg Lys  
1 5

<210> 81

<211> 9

<212> PRT

<213> Homo sapien

<400> 81

Phe Arg Gly Ile Gln Asp Val Arg Arg  
1 5

<210> 82

<211> 9

<212> PRT

<213> Homo sapien

<400> 82

Phe Ser Gly Gln Phe Thr Gly Thr Ala  
1 5

<210> 83

<211> 9

<212> PRT

<213> Homo sapien

<400> 83

Phe Ser Arg Ser Asp Gln Leu Lys Arg  
1 5

<210> 84

<211> 9

<212> PRT

<213> Homo sapien

<400> 84

Phe Thr Gly Thr Ala Gly Ala Cys Arg  
1 5

<210> 85

<211> 9

<212> PRT

<213> Homo sapien

<400> 85

Phe Thr Val His Phe Ser Gly Gln Phe  
1 5

<210> 86

<211> 9

<212> PRT

<213> Homo sapien

<400> 86

Gly Ala Ala Gln Trp Ala Pro Val Leu  
1 5

<210> 87

<211> 9

<212> PRT

<213> Homo sapien

<400> 87

Gly Ala Glu Pro His Glu Glu Gln Cys  
1 5

<210> 88

<211> 9

<212> PRT

<213> Homo sapien

<400> 88

Gly Ala Thr Leu Lys Gly Val Ala Ala  
1 5

<210> 89

<211> 9

<212> PRT



<213> Homo sapien

<400> 89

Gly Cys Ala Leu Pro Val Ser Gly Ala  
1 5

<210> 90

<211> 9

<212> PRT

<213> Homo sapien

<400> 90

Gly Cys Asn Lys Arg Tyr Phe Lys Leu  
1 5

<210> 91

<211> 9

<212> PRT

<213> Homo sapien

<400> 91

Gly Glu Lys Pro Tyr Gln Cys Asp Phe  
1 5

<210> 92

<211> 9

<212> PRT

<213> Homo sapien

<400> 92

Gly Gly Gly Gly Cys Ala Leu Pro Val  
1 5

<210> 93

<211> 9

<212> PRT

<213> Homo sapien

<400> 93

Gly Gly Pro Ala Pro Pro Pro Ala Pro  
1 5

<210> 94

<211> 9

<212> PRT

<213> Homo sapien

<400> 94

Gly His Thr Pro Ser His His Ala Ala  
1 5

<210> 95

<211> 9

<212> PRT

<213> Homo sapien

<400> 95

Gly Lys Thr Ser Glu Lys Pro Phe Ser  
1 5

<210> 96

<211> 9

<212> PRT

<213> Homo sapien

<400> 96

Gly Pro Phe Gly Pro Pro Pro Pro Ser  
1 5

<210> 97

<211> 9

<212> PRT

<213> Homo sapien

<400> 97

Gly Pro Pro Pro Pro Ser Gln Ala Ser  
1 5

<210> 98

<211> 9

<212> PRT

<213> Homo sapien

<400> 98

Gly Gln Ala Arg Met Phe Pro Asn Ala  
1 5

<210> 99

<211> 9

<212> PRT

<213> Homo sapien

<400> 99

Gly Gln Phe Thr Gly Thr Ala Gly Ala  
1 5

<210> 100

<211> 9

<212> PRT

<213> Homo sapien

<400> 100

Gly Gln Ser Asn His Ser Thr Gly Tyr  
1 5

<210> 101

<211> 9

<212> PRT

<213> Homo sapien

<400> 101

Gly Ser Asp Val Arg Asp Leu Asn Ala  
1 5

<210> 102

<211> 9

<212> PRT

<213> Homo sapien

<400> 102

Gly Ser Gln Ala Leu Leu Leu Arg Thr  
1 5

<210> 103

<211> 9

<212> PRT

<213> Homo sapien

<400> 103

Gly Val Phe Arg Gly Ile Gln Asp Val  
1 5

<210> 104

<211> 9

<212> PRT

<213> Homo sapien

<400> 104

Gly Val Lys Pro Phe Gln Cys Lys Thr  
1 5

<210> 105

<211> 9

<212> PRT

<213> Homo sapien

<400> 105

Gly Tyr Glu Ser Asp Asn His Thr Ala  
1 5

<210> 106

<211> 9

<212> PRT

<213> Homo sapien

<400> 106

Gly Tyr Glu Ser Asp Asn His Thr Thr  
1 5

<210> 107

<211> 9

<212> PRT

<213> Homo sapien

<400> 107

His Glu Glu Gln Cys Leu Ser Ala Phe  
1 5

<210> 108

<211> 9

<212> PRT

<213> Homo sapien

<400> 108

His His Asn Met His Gln Arg Asn Met  
1 5

<210> 109

<211> 9

<212> PRT

<213> Homo sapien

<400> 109

His Gln Arg Arg His Thr Gly Val Lys  
1 5

<210> 110

<211> 9

<212> PRT

<213> Homo sapien

<400> 110

His Ser Phe Lys His Glu Asp Pro Met  
1 5

<210> 111

<211> 9

<212> PRT

<213> Homo sapien

<400> 111

His Ser Arg Lys His Thr Gly Glu Lys  
1 5

<210> 112

<211> 9

<212> PRT

<213> Homo sapien

<400> 112

His Thr Gly Glu Lys Pro Tyr Gln Cys  
1 5

<210> 113

<211> 9

<212> PRT

<213> Homo sapien

<400> 113

His Thr His Gly Val Phe Arg Gly Ile  
1 5

<210> 114

<211> 9

<212> PRT

<213> Homo sapien

<400> 114

His Thr Arg Thr His Thr Gly Lys Thr  
1 5

<210> 115

<211> 9

<212> PRT

<213> Homo sapien

<400> 115

His Thr Thr Pro Ile Leu Cys Gly Ala  
1 5

<210> 116

<211> 9

<212> PRT

<213> Homo sapien

<400> 116

Ile Leu Cys Gly Ala Gln Tyr Arg Ile  
1 5

<210> 117

<211> 9

<212> PRT

<213> Homo sapien

<400> 117

Ile Arg Asn Gln Gly Tyr Ser Thr Val  
1 5

<210> 118

<211> 9

<212> PRT

<213> Homo sapien

<400> 118

Lys Asp Cys Glu Arg Arg Phe Ser Arg  
1 5

<210> 119

<211> 9

<212> PRT

<213> Homo sapien

<400> 119

Lys Phe Ala Arg Ser Asp Glu Leu Val  
1 5

<210> 120

<211> 9

<212> PRT

<213> Homo sapien

<400> 120

Lys Phe Ser Arg Ser Asp His Leu Lys  
1 5

<210> 121

<211> 9

<212> PRT

<213> Homo sapien

<400> 121

Lys His Glu Asp Pro Met Gly Gln Gln  
1 5

<210> 122

<211> 9

<212> PRT

<213> Homo sapien

<400> 122

Lys Lys Phe Ala Arg Ser Asp Glu Leu  
1 5

<210> 123

<211> 9

<212> PRT

<213> Homo sapien

<400> 123

Lys Pro Phe Ser Cys Arg Trp Pro Ser  
1 5

<210> 124

<211> 9

<212> PRT

<213> Homo sapien

<400> 124

Lys Pro Tyr Gln Cys Asp Phe Lys Asp  
1 5

<210> 125

<211> 9

<212> PRT

<213> Homo sapien

<400> 125

Lys Gln Glu Pro Ser Trp Gly Gly Ala  
1 5

<210> 126

<211> 9

<212> PRT

<213> Homo sapien

<400> 126

Lys Arg His Gln Arg Arg His Thr Gly  
1 5

<210> 127

<211> 9

<212> PRT

<213> Homo sapien

<400> 127

Lys Arg Tyr Phe Lys Leu Ser His Leu  
1 5

<210> 128

<211> 9

<212> PRT

<213> Homo sapien

<400> 128

Lys Thr Cys Gln Arg Lys Phe Ser Arg  
1 5

<210> 129

<211> 9

<212> PRT

<213> Homo sapien

<400> 129

Lys Thr Ser Glu Lys Pro Phe Ser Cys  
1 5

<210> 130

<211> 9

<212> PRT

<213> Homo sapien

<400> 130

Leu Asp Phe Ala Pro Pro Gly Ala Ser  
1 5

<210> 131

<211> 9

<212> PRT

<213> Homo sapien

<400> 131

Leu Glu Cys Met Thr Trp Asn Gln Met  
1 5

<210> 132

<211> 9

<212> PRT

<213> Homo sapien

<400> 132

Leu Glu Ser Gln Pro Ala Ile Arg Asn  
1 5

<210> 133

<211> 9

<212> PRT

<213> Homo sapien

<400> 133

Leu Gly Ala Thr Leu Lys Gly Val Ala  
1 5

<210> 134

<211> 9

<212> PRT

<213> Homo sapien

<400> 134

Leu Gly Gly Gly Gly Gly Cys Ala Leu  
1 5

<210> 135

<211> 9

<212> PRT

<213> Homo sapien

<400> 135

Leu Lys Gly Val Ala Ala Gly Ser Ser  
1 5

<210> 136

<211> 9

<212> PRT

<213> Homo sapien

<400> 136

Leu Lys Arg His Gln Arg Arg His Thr  
1 5

<210> 137

<211> 9

<212> PRT



<213> Homo sapien

<400> 137

Leu Lys Thr His Thr Arg Thr His Thr  
1 5

<210> 138

<211> 9

<212> PRT

<213> Homo sapien

<400> 138

Leu Pro Val Ser Gly Ala Ala Gln Trp  
1 5

<210> 139

<211> 9

<212> PRT

<213> Homo sapien

<400> 139

Leu Gln Met His Ser Arg Lys His Thr  
1 5

<210> 140

<211> 9

<212> PRT

<213> Homo sapien

<400> 140

Leu Arg Thr Pro Tyr Ser Ser Asp Asn  
1 5

<210> 141

<211> 9

<212> PRT

<213> Homo sapien

<400> 141

Leu Ser His Leu Gln Met His Ser Arg  
1 5

<210> 142

<211> 9

<212> PRT

<213> Homo sapien

<400> 142

Met Cys Ala Tyr Pro Gly Cys Asn Lys  
1 5

<210> 143

<211> 9

<212> PRT

<213> Homo sapien

<400> 143

Met His Gln Arg Asn Met Thr Lys Leu  
1 5

<210> 144

<211> 9

<212> PRT

<213> Homo sapien

<400> 144

Asn Ala Pro Tyr Leu Pro Ser Cys Leu  
1 5

<210> 145

<211> 9

<212> PRT

<213> Homo sapien

<400> 145

Asn Lys Arg Tyr Phe Lys Leu Ser His  
1 5

<210> 146

<211> 9

<212> PRT

<213> Homo sapien

<400> 146

Asn Leu Gly Ala Thr Leu Lys Gly Val  
1 5

<210> 147

<211> 9

<212> PRT

<213> Homo sapien

<400> 147

Asn Leu Tyr Gln Met Thr Ser Gln Leu  
1 5

<210> 148

<211> 9

<212> PRT

<213> Homo sapien

<400> 148

Asn Met His Gln Arg Asn Met Thr Lys  
1 5

<210> 149

<211> 9

<212> PRT

<213> Homo sapien

<400> 149

Asn Met Thr Lys Leu Gln Leu Ala Leu  
1 5

<210> 150

<211> 9

<212> PRT

<213> Homo sapien

<400> 150

Asn Gln Gly Tyr Ser Thr Val Thr Phe  
1 5

<210> 151

<211> 9

<212> PRT

<213> Homo sapien

<400> 151

Asn Gln Met Asn Leu Gly Ala Thr Leu  
1 5

<210> 152

<211> 9

<212> PRT

<213> Homo sapien

<400> 152

Pro Ala Ile Arg Asn Gln Gly Tyr Ser  
1 5

<210> 153

<211> 9

<212> PRT

<213> Homo sapien

<400> 153

Pro Gly Ala Ser Ala Tyr Gly Ser Leu  
1 5

<210> 154

<211> 9

<212> PRT

<213> Homo sapien

<400> 154

Pro His Glu Glu Gln Cys Leu Ser Ala  
1 5

<210> 155

<211> 9

<212> PRT

<213> Homo sapien

<400> 155

Pro Ile Leu Cys Gly Ala Gln Tyr Arg  
1 5

<210> 156

<211> 9

<212> PRT

<213> Homo sapien

<400> 156

Pro Pro Pro Pro His Ser Phe Ile Lys  
1 5

<210> 157

<211> 9

<212> PRT

<213> Homo sapien

<400> 157

Pro Pro Pro Pro Pro His Ser Phe Ile  
1 5

<210> 158

<211> 9

<212> PRT

<213> Homo sapien

<400> 158

Pro Pro Pro Pro Pro Pro His Ser Phe  
1 5

<210> 159

<211> 9

<212> PRT

<213> Homo sapien

<400> 159

Pro Ser Cys Gln Lys Lys Phe Ala Arg  
1 5

<210> 160

<211> 9

<212> PRT

<213> Homo sapien

<400> 160

Gln Ala Leu Leu Leu Arg Thr Pro Tyr  
1 5

<210> 161

<211> 9

<212> PRT

<213> Homo sapien

<400> 161

Gln Ala Ser Ser Gly Gln Ala Arg Met  
1 5

<210> 162

<211> 9

<212> PRT

<213> Homo sapien

<400> 162

Gln Cys Asp Phe Lys Asp Cys Glu Arg  
1 5

<210> 163

<211> 9

<212> PRT

<213> Homo sapien

<400> 163

Gln Cys Lys Thr Cys Gln Arg Lys Phe  
1 5

<210> 164

<211> 9

<212> PRT

<213> Homo sapien

<400> 164

Gln Asp Val Arg Arg Val Pro Gly Val  
1 5

<210> 165

<211> 9

<212> PRT

<213> Homo sapien

<400> 165

Gln Phe Thr Gly Thr Ala Gly Ala Cys  
1 5

<210> 166

<211> 9

<212> PRT

<213> Homo sapien

<400> 166

Gln Gly Ser Leu Gly Glu Gln Gln Tyr  
1 5

<210> 167

<211> 9

<212> PRT

<213> Homo sapien

<400> 167

Gln Leu Glu Cys Met Thr Trp Asn Gln  
1 5

<210> 168

<211> 9

<212> PRT

<213> Homo sapien

<400> 168

Gln Met Asn Leu Gly Ala Thr Leu Lys  
1 5

<210> 169

<211> 9

<212> PRT

<213> Homo sapien

<400> 169

Gln Met Thr Ser Gln Leu Glu Cys Met  
1 5

<210> 170

<211> 9

<212> PRT

<213> Homo sapien

<400> 170

Gln Pro Ala Ile Arg Asn Gln Gly Tyr  
1 5

<210> 171

<211> 9

<212> PRT

<213> Homo sapien

<400> 171

Gln Gln Tyr Ser Val Pro Pro Pro Val  
1 5

<210> 172

<211> 9

<212> PRT

<213> Homo sapien

<400> 172

Gln Arg Lys Phe Ser Arg Ser Asp His  
1 5

<210> 173

<211> 9

<212> PRT

<213> Homo sapien

<400> 173

Gln Arg Asn Met Thr Lys Leu Gln Leu  
1 5

<210> 174

<211> 9

<212> PRT

<213> Homo sapien

<400> 174

Gln Trp Ala Pro Val Leu Asp Phe Ala  
1 5

<210> 175

<211> 9

<212> PRT

<213> Homo sapien

<400> 175

Gln Tyr Arg Ile His Thr His Gly Val  
1 5

<210> 176

<211> 9

<212> PRT

<213> Homo sapien

<400> 176

Gln Tyr Ser Val Pro Pro Pro Val Tyr  
1 5

<210> 177

<211> 9

<212> PRT

<213> Homo sapien

<400> 177

Arg Asp Leu Asn Ala Leu Leu Pro Ala  
1 5

<210> 178

<211> 9

<212> PRT

<213> Homo sapien

<400> 178

Arg Phe Ser Arg Ser Asp Gln Leu Lys  
1 5

<210> 179

<211> 9

<212> PRT

<213> Homo sapien

<400> 179

Arg Gly Ile Gln Asp Val Arg Arg Val  
1 5

<210> 180

<211> 9

<212> PRT

<213> Homo sapien

<400> 180

Arg His His Asn Met His Gln Arg Asn  
1 5

<210> 181

<211> 9

<212> PRT

<213> Homo sapien

<400> 181

Arg His Gln Arg Arg His Thr Gly Val  
1 5

<210> 182

<211> 9

<212> PRT

<213> Homo sapien

<400> 182

Arg Ile His Thr His Gly Val Phe Arg  
1 5

<210> 183

<211> 9

<212> PRT

<213> Homo sapien

<400> 183

Arg Lys Phe Ser Arg Ser Asp His Leu  
1 5

<210> 184

<211> 9

<212> PRT

<213> Homo sapien

<400> 184

Arg Lys His Thr Gly Glu Lys Pro Tyr  
1 5

<210> 185

<211> 9

<212> PRT



<213> Homo sapien

<400> 185

Arg Met Phe Pro Asn Ala Pro Tyr Leu  
1 5

<210> 186

<211> 9

<212> PRT

<213> Homo sapien

<400> 186

Arg Asn Met Thr Lys Leu Gln Leu Ala  
1 5

<210> 187

<211> 9

<212> PRT

<213> Homo sapien

<400> 187

Arg Arg Phe Ser Arg Ser Asp Gln Leu  
1 5

<210> 188

<211> 9

<212> PRT

<213> Homo sapien

<400> 188

Arg Arg His Thr Gly Val Lys Pro Phe  
1 5

<210> 189

<211> 9

<212> PRT

<213> Homo sapien

<400> 189

Arg Arg Val Pro Gly Val Ala Pro Thr  
1 5

<210> 190

<211> 9

<212> PRT

<213> Homo sapien

<400> 190

Arg Ser Ala Ser Glu Thr Ser Glu Lys  
1 5

<210> 191

<211> 9

<212> PRT

<213> Homo sapien

<400> 191

Arg Ser Asp Glu Leu Val Arg His His  
1 5

<210> 192

<211> 9

<212> PRT

<213> Homo sapien

<400> 192

Arg Ser Asp His Leu Lys Thr His Thr  
1 5

<210> 193

<211> 9

<212> PRT

<213> Homo sapien

<400> 193

Arg Ser Asp Gln Leu Lys Arg His Gln  
1 5

<210> 194

<211> 9

<212> PRT

<213> Homo sapien

<400> 194

Arg Thr Pro Tyr Ser Ser Asp Asn Leu  
1 5

<210> 195

<211> 9

<212> PRT

<213> Homo sapien

<400> 195

Arg Val Pro Gly Val Ala Pro Thr Leu  
1 5

<210> 196

<211> 9

<212> PRT

<213> Homo sapien

<400> 196

Arg Trp Pro Ser Cys Gln Lys Lys Phe  
1 5

<210> 197

<211> 9

<212> PRT

<213> Homo sapien

<400> 197

Ser Ala Ser Glu Thr Ser Glu Lys Arg  
1 5

<210> 198

<211> 9

<212> PRT

<213> Homo sapien

<400> 198

Ser Cys Leu Glu Ser Gln Pro Ala Ile  
1 5

<210> 199

<211> 9

<212> PRT

<213> Homo sapien

<400> 199

Ser Cys Leu Glu Ser Gln Pro Thr Ile  
1 5

<210> 200

<211> 9

<212> PRT

<213> Homo sapien

<400> 200

Ser Cys Gln Lys Lys Phe Ala Arg Ser  
1 5

<210> 201

<211> 9

<212> PRT

<213> Homo sapien

<400> 201

Ser Cys Arg Trp Pro Ser Cys Gln Lys  
1 5

<210> 202

<211> 9

<212> PRT

<213> Homo sapien

<400> 202

Ser Cys Thr Gly Ser Gln Ala Leu Leu  
1 5

<210> 203

<211> 9

<212> PRT

<213> Homo sapien

<400> 203

Ser Asp Glu Leu Val Arg His His Asn  
1 5

<210> 204

<211> 9

<212> PRT

<213> Homo sapien

<400> 204

Ser Asp Asn His Thr Thr Pro Ile Leu  
1 5

<210> 205

<211> 9

<212> PRT

<213> Homo sapien

<400> 205

Ser Asp Asn Leu Tyr Gln Met Thr Ser  
1 5

<210> 206

<211> 9

<212> PRT

<213> Homo sapien

<400> 206

Ser Asp Val Arg Asp Leu Asn Ala Leu  
1 5

<210> 207

<211> 9

<212> PRT

<213> Homo sapien

<400> 207

Ser Glu Lys Pro Phe Ser Cys Arg Trp  
1 5

<210> 208

<211> 9

<212> PRT

<213> Homo sapien

<400> 208

Ser Glu Lys Arg Pro Phe Met Cys Ala  
1 5

<210> 209

<211> 9

<212> PRT

<213> Homo sapien

<400> 209

Ser Glu Thr Ser Glu Lys Arg Pro Phe  
1 5

<210> 210

<211> 9

<212> PRT

<213> Homo sapien

<400> 210

Ser Phe Ile Lys Gln Glu Pro Ser Trp  
1 5

<210> 211

<211> 9

<212> PRT

<213> Homo sapien

<400> 211

Ser Gly Ala Ala Gln Trp Ala Pro Val  
1 5

<210> 212

<211> 9

<212> PRT

<213> Homo sapien

<400> 212

Ser Gly Gln Ala Arg Met Phe Pro Asn  
1 5

<210> 213

<211> 9

<212> PRT

<213> Homo sapien

<400> 213

Ser His His Ala Ala Gln Phe Pro Asn  
1 5

<210> 214

<211> 9

<212> PRT

<213> Homo sapien

<400> 214

Ser Leu Gly Glu Gln Gln Tyr Ser Val  
1 5

<210> 215

<211> 9

<212> PRT

<213> Homo sapien

<400> 215

Ser Leu Gly Gly Gly Gly Gly Cys Ala  
1 5

<210> 216

<211> 9

<212> PRT

<213> Homo sapien

<400> 216

Ser Gln Ala Ser Ser Gly Gln Ala Arg  
1 5

<210> 217

<211> 9

<212> PRT

<213> Homo sapien

<400> 217

Ser Ser Asp Asn Leu Tyr Gln Met Thr  
1 5

<210> 218

<211> 9

<212> PRT

<213> Homo sapien

<400> 218

Ser Val Pro Pro Pro Val Tyr Gly Cys  
1 5

<210> 219

<211> 9

<212> PRT

<213> Homo sapien

<400> 219

Thr Cys Gln Arg Lys Phe Ser Arg Ser  
1 5

<210> 220

<211> 9

<212> PRT

<213> Homo sapien

<400> 220

Thr Asp Ser Cys Thr Gly Ser Gln Ala  
1 5

<210> 221

<211> 9

<212> PRT

<213> Homo sapien

<400> 221

Thr Glu Gly Gln Ser Asn His Ser Thr  
1 5

<210> 222

<211> 9

<212> PRT

<213> Homo sapien

<400> 222

Thr Gly Lys Thr Ser Glu Lys Pro Phe  
1 5

<210> 223

<211> 9

<212> PRT

<213> Homo sapien

<400> 223

Thr Gly Ser Gln Ala Leu Leu Leu Arg  
1 5

<210> 224

<211> 9

<212> PRT

<213> Homo sapien

<400> 224

Thr Gly Thr Ala Gly Ala Cys Arg Tyr  
1 5

<210> 225

<211> 9

<212> PRT

<213> Homo sapien

<400> 225

Thr Gly Tyr Glu Ser Asp Asn His Thr  
1 5

<210> 226

<211> 9

<212> PRT

<213> Homo sapien

<400> 226

Thr Leu Val Arg Ser Ala Ser Glu Thr  
1 5

<210> 227

<211> 9

<212> PRT

<213> Homo sapien

<400> 227

Thr Pro Ile Leu Cys Gly Ala Gln Tyr  
1 5

<210> 228

<211> 9

<212> PRT

<213> Homo sapien

<400> 228

Thr Pro Ser His His Ala Ala Gln Phe  
1 5

<210> 229

<211> 9

<212> PRT

<213> Homo sapien

<400> 229

Thr Pro Ser Tyr Gly His Thr Pro Ser  
1 5

<210> 230

<211> 9

<212> PRT

<213> Homo sapien

<400> 230

Thr Pro Thr Asp Ser Cys Thr Gly Ser  
1 5

<210> 231

<211> 9

<212> PRT

<213> Homo sapien

<400> 231

Thr Pro Tyr Ser Ser Asp Asn Leu Tyr  
1 5

<210> 232

<211> 9

<212> PRT

<213> Homo sapien

<400> 232

Thr Ser Glu Lys Pro Phe Ser Cys Arg  
1 5

<210> 233

<211> 9

<212> PRT



<213> Homo sapien

<400> 233

Thr Ser Glu Lys Arg Pro Phe Met Cys  
1 5

<210> 234

<211> 9

<212> PRT

<213> Homo sapien

<400> 234

Thr Ser Gln Leu Glu Cys Met Thr Trp  
1 5

<210> 235

<211> 9

<212> PRT

<213> Homo sapien

<400> 235

Thr Val His Phe Ser Gly Gln Phe Thr  
1 5

<210> 236

<211> 9

<212> PRT

<213> Homo sapien

<400> 236

Val Ala Ala Gly Ser Ser Ser Ser Val  
1 5

<210> 237

<211> 9

<212> PRT

<213> Homo sapien

<400> 237

Val Ala Pro Thr Leu Val Arg Ser Ala  
1 5

<210> 238

<211> 9

<212> PRT

<213> Homo sapien

<400> 238

Val Phe Arg Gly Ile Gln Asp Val Arg  
1 5

<210> 239

<211> 9

<212> PRT

<213> Homo sapien

<400> 239

Val Lys Pro Phe Gln Cys Lys Thr Cys  
1 5

<210> 240

<211> 9

<212> PRT

<213> Homo sapien

<400> 240

Val Lys Trp Thr Glu Gly Gln Ser Asn  
1 5

<210> 241

<211> 9

<212> PRT

<213> Homo sapien

<400> 241

Val Leu Asp Phe Ala Pro Pro Gly Ala  
1 5

<210> 242

<211> 9

<212> PRT

<213> Homo sapien

<400> 242

Val Pro Gly Val Ala Pro Thr Leu Val  
1 5

<210> 243

<211> 9

<212> PRT

<213> Homo sapien

<400> 243

Val Arg His His Asn Met His Gln Arg  
1 5

<210> 244

<211> 9

<212> PRT

<213> Homo sapien

<400> 244

Val Thr Phe Asp Gly Thr Pro Ser Tyr  
1 5

<210> 245

<211> 9

<212> PRT

<213> Homo sapien

<400> 245

Trp Asn Gln Met Asn Leu Gly Ala Thr  
1 5

<210> 246

<211> 9

<212> PRT

<213> Homo sapien

<400> 246

Trp Pro Ser Cys Gln Lys Lys Phe Ala  
1 5

<210> 247

<211> 9

<212> PRT

<213> Homo sapien

<400> 247

Trp Thr Glu Gly Gln Ser Asn His Ser  
1 5

<210> 248

<211> 9

<212> PRT

<213> Homo sapien

<400> 248

Tyr Phe Lys Leu Ser His Leu Gln Met  
1 5

<210> 249

<211> 9

<212> PRT

<213> Homo sapien

<400> 249

Tyr Gly His Thr Pro Ser His His Ala  
1 5

<210> 250

<211> 9

<212> PRT

<213> Homo sapien

<400> 250

Tyr Pro Gly Cys Asn Lys Arg Tyr Phe  
1 5

<210> 251

<211> 9

<212> PRT

<213> Homo sapien

<400> 251

Tyr Gln Met Thr Ser Gln Leu Glu Cys  
1 5

<210> 252

<211> 9

<212> PRT

<213> Homo sapien

<400> 252

Tyr Arg Ile His Thr His Gly Val Phe  
1 5

<210> 253

<211> 9

<212> PRT

<213> Homo sapien

<400> 253

Tyr Ser Ser Asp Asn Leu Tyr Gln Met  
1 5

<210> 254

<211> 9

<212> PRT

<213> Mus musculus

<400> 254

Ala Glu Pro His Glu Glu Gln Cys Leu  
1 5

<210> 255

<211> 9

<212> PRT

<213> Mus musculus

<400> 255

Ala Leu Leu Pro Ala Val Ser Ser Leu  
1 5

<210> 256

<211> 9

<212> PRT

<213> Mus musculus

<400> 256

Ala Tyr Gly Ser Leu Gly Gly Pro Ala  
1 5

<210> 257

<211> 9

<212> PRT

<213> Mus musculus

<400> 257

Ala Tyr Pro Gly Cys Asn Lys Arg Tyr  
1 5

<210> 258

<211> 9

<212> PRT

<213> Mus musculus

<400> 258

Cys Met Thr Trp Asn Gln Met Asn Leu  
1 5

<210> 259

<211> 9

<212> PRT

<213> Mus musculus

<400> 259

Cys Thr Gly Ser Gln Ala Leu Leu Leu  
1 5

<210> 260

<211> 9

<212> PRT

<213> Mus musculus

<400> 260

Asp Gly Ala Pro Ser Tyr Gly His Thr  
1 5

<210> 261

<211> 9

<212> PRT

<213> Mus musculus

<400> 261

Asp Leu Asn Ala Leu Leu Pro Ala Val  
1 5

<210> 262

<211> 9

<212> PRT

<213> Mus musculus

<400> 262

Asp Pro Met Gly Gln Gln Gly Ser Leu  
1 5

<210> 263

<211> 9

<212> PRT

<213> Mus musculus

<400> 263

Asp Ser Cys Thr Gly Ser Gln Ala Leu  
1 5

<210> 264

<211> 9

<212> PRT

<213> Mus musculus

<400> 264

Asp Val Arg Asp Leu Asn Ala Leu Leu  
1 5

<210> 265

<211> 9

<212> PRT

<213> Mus musculus

<400> 265

Glu Gln Cys Leu Ser Ala Phe Thr Leu  
1 5

<210> 266

<211> 9

<212> PRT

<213> Mus musculus

<400> 266

Glu Ser Asp Asn His Thr Ala Pro Ile  
1 5

<210> 267

<211> 9

<212> PRT

<213> Mus musculus

<400> 267

Phe Pro Asn Ala Pro Tyr Leu Pro Ser  
1 5

<210> 268

<211> 9

<212> PRT

<213> Mus musculus

<400> 268

Gly Cys Asn Lys Arg Tyr Phe Lys Leu  
1 5

<210> 269

<211> 9

<212> PRT

<213> Mus musculus

<400> 269

Gly Gln Ala Arg Met Phe Pro Asn Ala  
1 5

<210> 270

<211> 9

<212> PRT

<213> Mus musculus

<400> 270

Gly Val Phe Arg Gly Ile Gln Asp Val  
1 5

<210> 271

<211> 9

<212> PRT

<213> Mus musculus

<400> 271

Gly Tyr Glu Ser Asp Asn His Thr Ala  
1 5

<210> 272

<211> 9

<212> PRT

<213> Mus musculus

<400> 272

His Ser Phe Lys His Glu Asp Pro Met  
1 5

<210> 273

<211> 9

<212> PRT

<213> Mus musculus

<400> 273

His Thr His Gly Val Phe Arg Gly Ile  
1 5

<210> 274

<211> 9

<212> PRT

<213> Mus musculus

<400> 274

Ile Leu Cys Gly Ala Gln Tyr Arg Ile  
1 5

<210> 275

<211> 9

<212> PRT

<213> Mus musculus

<400> 275

Lys Phe Ala Arg Ser Asp Glu Leu Val  
1 5

<210> 276

<211> 9

<212> PRT

<213> Mus musculus

<400> 276

Lys Arg Tyr Phe Lys Leu Ser His Leu  
1 5

<210> 277

<211> 9

<212> PRT

<213> Mus musculus

<400> 277

Lys Thr Ser Glu Lys Pro Phe Ser Cys  
1 5

<210> 278

<211> 9

<212> PRT

<213> Mus musculus

<400> 278

Leu Glu Cys Met Thr Trp Asn Gln Met  
1 5

<210> 279

<211> 9

<212> PRT

<213> Mus musculus

<400> 279

Leu Gly Gly Gly Gly Gly Cys Gly Leu  
1 5

<210> 280

<211> 9

<212> PRT

<213> Mus musculus

<400> 280

Leu Gln Met His Ser Arg Lys His Thr  
1 5

<210> 281

<211> 9

<212> PRT



<213> Mus musculus

<400> 281

Met His Gln Arg Asn Met Thr Lys Leu  
1 5

<210> 282

<211> 9

<212> PRT

<213> Mus musculus

<400> 282

Asn Ala Pro Tyr Leu Pro Ser Cys Leu  
1 5

<210> 283

<211> 9

<212> PRT

<213> Mus musculus

<400> 283

Asn Leu Gly Ala Thr Leu Lys Gly Met  
1 5

<210> 284

<211> 9

<212> PRT

<213> Mus musculus

<400> 284

Asn Leu Tyr Gln Met Thr Ser Gln Leu  
1 5

<210> 285

<211> 9

<212> PRT

<213> Mus musculus

<400> 285

Asn Met Thr Lys Leu His Val Ala Leu  
1 5

<210> 286

<211> 9

<212> PRT

<213> Mus musculus

<400> 286

Asn Gln Met Asn Leu Gly Ala Thr Leu  
1 5

<210> 287

<211> 9

<212> PRT

<213> Mus musculus

<400> 287

Pro Gly Ala Ser Ala Tyr Gly Ser Leu  
1 5

<210> 288

<211> 9

<212> PRT

<213> Mus musculus

<400> 288

Gln Ala Ser Ser Gly Gln Ala Arg Met  
1 5

<210> 289

<211> 9

<212> PRT

<213> Mus musculus

<400> 289

Gln Met Thr Ser Gln Leu Glu Cys Met  
1 5

<210> 290

<211> 9

<212> PRT

<213> Mus musculus

<400> 290

Gln Gln Tyr Ser Val Pro Pro Pro Val  
1 5

<210> 291

<211> 9

<212> PRT

<213> Mus musculus

<400> 291

Gln Tyr Arg Ile His Thr His Gly Val  
1 5

<210> 292

<211> 9

<212> PRT

<213> Mus musculus

<400> 292

Gln Tyr Ser Val Pro Pro Pro Val Tyr  
1 5

<210> 293

<211> 9

<212> PRT

<213> Mus musculus

<400> 293

Arg Met Phe Pro Asn Ala Pro Tyr Leu  
1 5

<210> 294

<211> 9

<212> PRT

<213> Mus musculus

<400> 294

Arg Thr Pro Tyr Ser Ser Asp Asn Leu  
1 5

<210> 295

<211> 9

<212> PRT

<213> Mus musculus

<400> 295

Arg Val Ser Gly Val Ala Pro Thr Leu  
1 5

<210> 296

<211> 9

<212> PRT

<213> Mus musculus

<400> 296

Ser Cys Leu Glu Ser Gln Pro Thr Ile  
1 5

<210> 297

<211> 9

<212> PRT

<213> Mus musculus

<400> 297

Ser Cys Gln Lys Lys Phe Ala Arg Ser  
1 5

<210> 298

<211> 9

<212> PRT

<213> Mus musculus

<400> 298

Ser Asp Val Arg Asp Leu Asn Ala Leu  
1 5

<210> 299

<211> 9

<212> PRT

<213> Mus musculus

<400> 299

Ser Leu Gly Glu Gln Gln Tyr Ser Val  
1 5

<210> 300

<211> 9

<212> PRT

<213> Mus musculus

<400> 300

Thr Cys Gln Arg Lys Phe Ser Arg Ser  
1 5

<210> 301

<211> 9

<212> PRT

<213> Mus musculus

<400> 301

Thr Glu Gly Gln Ser Asn His Gly Ile  
1 5

<210> 302

<211> 9

<212> PRT

<213> Mus musculus

<400> 302

Thr Leu His Phe Ser Gly Gln Phe Thr  
1 5

<210> 303

<211> 9

<212> PRT

<213> Mus musculus

<400> 303

Thr Leu Val Arg Ser Ala Ser Glu Thr  
1 5

<210> 304

<211> 9

<212> PRT

<213> Mus musculus

<400> 304

Val Leu Asp Phe Ala Pro Pro Gly Ala  
1 5

<210> 305

<211> 9

<212> PRT

<213> Mus musculus

<400> 305

Trp Asn Gln Met Asn Leu Gly Ala Thr  
1 5

<210> 306

<211> 9

<212> PRT

<213> Mus musculus

<400> 306

Tyr Phe Lys Leu Ser His Leu Gln Met  
1 5

<210> 307

<211> 9

<212> PRT

<213> Mus musculus

<400> 307

Tyr Gln Met Thr Ser Gln Leu Glu Cys  
1 5

<210> 308

<211> 9

<212> PRT

<213> Mus musculus

<400> 308

Tyr Ser Ser Asp Asn Leu Tyr Gln Met  
1 5

<210> 309

<211> 6

<212> PRT

<213> Homo sapien

<400> 309

Gly Ala Ala Gln Trp Ala  
1 5

<210> 310

<211> 12

<212> PRT

<213> Homo sapien

<400> 310

Ala Ser Ala Tyr Gly Ser Leu Gly Gly Pro Ala Pro  
1 5 10

<210> 311

<211> 15

<212> PRT

<213> Homo sapien

<400> 311

Ala	Phe	Thr	Val	His	Phe	Ser	Gly	Gln	Phe	Thr	Gly	Thr	Ala	Gly
1				5					10					15

<210> 312

<211> 5

<212> PRT

<213> Homo sapien

<400> 312

His	Ala	Ala	Gln	Phe
1				5

<210> 313

<211> 32

<212> PRT

<213> Homo sapien

<400> 313

Cys	His	Thr	Pro	Thr	Asp	Ser	Cys	Thr	Gly	Ser	Gln	Ala	Leu	Leu	Leu
1				5					10					15	
Arg	Thr	Pro	Tyr	Ser	Ser	Asp	Asn	Leu	Tyr	Gln	Met	Thr	Ser	Gln	Leu
			20					25					30		

<210> 314

<211> 32

<212> PRT

<213> Homo sapien

<400> 314

Arg	Ile	His	Thr	His	Gly	Val	Phe	Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg
1				5					10					15	
Val	Pro	Gly	Val	Ala	Pro	Thr	Leu	Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser
			20					25					30		

<210> 315

<211> 4

<212> PRT

<213> Homo sapien

<400> 315

Arg	Tyr	Phe	Lys
1			

<210> 316

<211> 14

<212> PRT

<213> Homo sapien

<400> 316

Glu	Arg	Arg	Phe	Ser	Arg	Ser	Asp	Gln	Leu	Lys	Arg	His	Gln
1				5					10				

<210> 317  
 <211> 22  
 <212> PRT  
 <213> Homo sapien

<400> 317  
 Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr  
 1 5 10 15  
 His Thr Gly Lys Thr Ser  
 20

<210> 318  
 <211> 21  
 <212> PRT  
 <213> Homo sapien

<400> 318  
 Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His Asn  
 1 5 10 15  
 Met His Gln Arg Asn  
 20

<210> 319  
 <211> 449  
 <212> PRT  
 <213> Homo sapien

<400> 319  
 Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro  
 1 5 10 15  
 Ser Leu Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala  
 20 25 30  
 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr  
 35 40 45  
 Gly Ser Leu Gly Gly Pro Ala Pro Pro Ala Pro Pro Pro Pro  
 50 55 60  
 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly  
 65 70 75 80  
 Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe  
 85 90 95  
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
 100 105 110  
 Gly Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe  
 115 120 125  
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile  
 130 135 140  
 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr  
 145 150 155 160  
 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe  
 165 170 175  
 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln  
 180 185 190  
 Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser

[illegible]

```
<210> 320
<211> 449
<212> PRT
<213> Mus musculus
```

	<400> 320														
Met 1	Gly	Ser	Asp	Val 5	Arg	Asp	Leu	Asn	Ala 10	Leu	Leu	Pro	Ala	Val 15	Ser
Ser	Leu	Gly	Gly 20	Gly	Gly	Gly	Cys	Gly 25	Leu	Pro	Val	Ser	Gly 30	Ala	Ala
Gln	Trp	Ala 35	Pro	Val	Leu	Asp 40	Phe	Ala	Pro	Pro	Gly	Ala 45	Ser	Ala	Tyr
Gly	Ser 50	Leu	Gly	Gly	Pro	Ala 55	Pro	Pro	Pro	Ala	Pro 60	Pro	Pro	Pro	Pro
Pro 65	Pro	Pro	Pro	His	Ser 70	Phe	Ile	Lys	Gln	Glu 75	Pro	Ser	Trp	Gly	Gly 80
Ala	Glu	Pro	His 85	Glu	Gln	Cys	Leu	Ser 90	Ala	Phe	Thr	Leu	His 95	Phe	
Ser	Gly	Gln	Phe 100	Thr	Gly	Thr	Ala	Gly 105	Ala	Cys	Arg	Tyr	Gly 110	Pro	Phe



Gly	Pro	Pro	Pro	Pro	Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg	Met	Phe
		115					120					125			
Pro	Asn	Ala	Pro	Tyr	Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro	Thr	Ile
	130					135					140				
Arg	Asn	Gln	Gly	Tyr	Ser	Thr	Val	Thr	Phe	Asp	Gly	Ala	Pro	Ser	Tyr
145					150					155					160
Gly	His	Thr	Pro	Ser	His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Phe
				165					170					175	
Lys	His	Glu	Asp	Pro	Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln
		180					185						190		
Tyr	Ser	Val	Pro	Pro	Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser
	195					200						205			
Cys	Thr	Gly	Ser	Gln	Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp
	210					215					220				
Asn	Leu	Tyr	Gln	Met	Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln
225					230					235					240
Met	Asn	Leu	Gly	Ala	Thr	Leu	Lys	Gly	Met	Ala	Ala	Gly	Ser	Ser	Ser
			245					250						255	
Ser	Val	Lys	Trp	Thr	Glu	Gly	Gln	Ser	Asn	His	Gly	Ile	Gly	Tyr	Glu
		260				265						270			
Ser	Asp	Asn	His	Thr	Ala	Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg	Ile
	275					280						285			
His	Thr	His	Gly	Val	Phe	Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg	Val	Ser
	290					295					300				
Gly	Val	Ala	Pro	Thr	Leu	Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu	Lys
305					310					315					320
Arg	Pro	Phe	Met	Cys	Ala	Tyr	Pro	Gly	Cys	Asn	Lys	Arg	Tyr	Phe	Lys
			325					330						335	
Leu	Ser	His	Leu	Gln	Met	His	Ser	Arg	Lys	His	Thr	Gly	Glu	Lys	Pro
		340					345					350			
Tyr	Gln	Cys	Asp	Phe	Lys	Asp	Cys	Glu	Arg	Arg	Phe	Ser	Arg	Ser	Asp
	355					360					365				
Gln	Leu	Lys	Arg	His	Gln	Arg	Arg	His	Thr	Gly	Val	Lys	Pro	Phe	Gln
	370				375						380				
Cys	Lys	Thr	Cys	Gln	Arg	Lys	Phe	Ser	Arg	Ser	Asp	His	Leu	Lys	Thr
385				390					395						400
His	Thr	Arg	Thr	His	Thr	Gly	Lys	Thr	Ser	Glu	Lys	Pro	Phe	Ser	Cys
		405						410					415		
Arg	Trp	His	Ser	Cys	Gln	Lys	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Leu	Val
		420					425					430			
Arg	His	His	Asn	Met	His	Gln	Arg	Asn	Met	Thr	Lys	Leu	His	Val	Ala
	435					440						445			

Leu

&lt;210&gt; 321

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapien and Mus musculus

&lt;400&gt; 321

Pro Ser Gln Ala Ser Ser Gly Gln Ala

1

5

<210> 322  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 322  
 Ser Ser Gly Gln Ala Arg Met Phe Pro  
 1 5

<210> 323  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 323  
 Gln Ala Arg Met Phe Pro Asn Ala Pro  
 1 5

<210> 324  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 324  
 Met Phe Pro Asn Ala Pro Tyr Leu Pro  
 1 5

<210> 325  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 325  
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys  
 1 5

<210> 326  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 326  
 Ala Pro Tyr Leu Pro Ser Cys Leu Glu  
 1 5